

SEQUENCE LISTING

<110> Berzofsky, Jay A.
Okazaki, Takahiro

<120> Enhanced HIV-1 Vaccines and Methods for Their Use

<130> 015280-481100US

<140> US 10/551,405
<141> 2005-09-29

<150> US 60/459,507
<151> 2003-03-31

<150> WO PCT/US04/09617
<151> 2004-03-29

<160> 22

<170> PatentIn Ver. 2.1

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<220>
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synthetic sequence motif derived from HIV-1
reverse transcriptase (RT) catalytic site region,
immunostimulating peptide

<220>
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<222> (1)
<223> Xaa = any hydrophobic amino acid

<400> 1
Xaa Leu Tyr Gln Tyr Met Asp Asp Val
1 5

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<223> Description of Artificial Sequence:variant of
synthetic sequence motif derived from HIV-1
reverse transcriptase (RT) catalytic site region,
immunostimulating peptide, RT-2L9V, 2L9V

<400> 2
Val Leu Tyr Gln Tyr Met Asp Asp Val
1 5

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<210> 3
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<223> Description of Artificial Sequence:variant of
      synthetic sequence motif derived from HIV-1
      reverse transcriptase (RT) catalytic site region,
      immunostimulating peptide, RT-1Y2L9V

<400> 3
Tyr Leu Tyr Gln Tyr Met Asp Asp Val
  1           5

<210> 4
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      immunostimulating peptide

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<223> Xaa = any amino acid, may be present or absent

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Xaa Xaa
  20          25           30

Xaa Xaa
  35          40           45

Xaa Xaa
  50          55           60

Xaa Xaa
  65          70           75           80

Xaa Xaa
  85          90           95

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Xaa
100 105 110

Xaa
115 120 125

Xaa
130 135 140

Xaa
145 150 155 160

Xaa
165 170 175

Xaa
180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Tyr Gln Tyr Met Asp Asp
195 200 205

Val Xaa
210 215 220

Xaa
225 230 235 240

Xaa
245 250 255

Xaa
260 265 270

Xaa
275 280 285

Xaa
290 295 300

Xaa
305 310 315 320

Xaa
325 330 335

Xaa
340 345 350

Xaa
355 360 365

Xaa
370 375 380

Xaa
385 390 395 400

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
405

Val Xaa		
210	215	220
Xaa		
225	230	235
Xaa		
245	250	255
Xaa		
260	265	270
Xaa		
275	280	285
Xaa		
290	295	300
Xaa		
305	310	315
Xaa		
325	330	335
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340	345	350
Xaa		
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Xaa		
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<210> 6
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 <220>
 <223> Description of Artificial Sequence:variant of
 synthetic sequence motif derived from HIV-1
 reverse transcriptase (RT) catalytic site region,
 immunostimulating peptide

 <220>
 <221> MOD_RES
 <222> (1)..(200)
 <223> Xaa = any amino acid, may be present or absent

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 <222> (210)..(409)
 <223> Xaa = any amino acid, may be present or absent

<400> 6

Xaa
1 5 10 15

Xaa
20 25 30

Xaa
35 40 45

Xaa
50 55 60

Xaa
65 70 75 80

Xaa
85 90 95

Xaa
100 105 110

Xaa
115 120 125

Xaa
130 135 140

Xaa
145 150 155 160

Xaa
165 170 175

Xaa
180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Leu Tyr Gln Tyr Met Asp Asp
195 200 205

Val Xaa
210 215 220

Xaa
225 230 235 240

Xaa
245 250 255

Xaa
260 265 270

Xaa
275 280 285

Xaa
290 295 300

Xaa
305 310 315 320

Xaa
325 330 335

Xaa
340 345 350

Xaa
355 360 365

Xaa
370 375 380

Xaa
385 390 395 400

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
405

<210> 7
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<220>
<223> Description of Artificial Sequence:HIV-1 reverse transcriptase (RT) catalytic site region sequence motif, wild-type RT (179-187), RT-WT

<400> 7
Val Ile Tyr Gln Tyr Met Asp Asp Leu
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<210> 8
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<220>
<223> Description of Artificial Sequence:variant of synthetic sequence motif derived from HIV-1 reverse transcriptase (RT) catalytic site region, RT-1Y immunostimulating peptide

<400> 8
Tyr Ile Tyr Gln Tyr Met Asp Asp Leu
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<210> 9
<211> 9
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<213> Artificial Sequence

<220>
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<210> 10
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<220>
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<210> 11
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<220>
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<220>
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<223> Xaa = any hydrophobic amino acid, preferably Val

<400> 11
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alanine substituted peptide 2A

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<223> Description of Artificial Sequence:RT (179-187)-WT
alanine substituted peptide 3A

<400> 14
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<210> 15
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alanine substituted peptide 4A

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alanine substituted peptide 5A

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<210> 17
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alanine substituted peptide 6A

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<210> 18
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alanine substituted peptide 7A

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<210> 19
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<212> PRT
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alanine substituted peptide 8A

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alanine substituted peptide 9A

<400> 20
Val Ile Tyr Gln Tyr Met Asp Asp Ala
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<220>
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substituted peptide 2L

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substituted peptide 9V

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